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Vocabulary Builder Reference from...

Nina Tandon: Could tissue engineering mean personalized medicine? | TED Talk

https://www.ted.com/talks/nina_tandon_could_tissue_engineering_mean_personalized_medicine

All Words

IMPORTANT

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Session 1: Word List

ounce

n. a unit of weight equal to approximately 28 grams
(1) **ounce** weight, (2) have an **ounce** of confidence
One **ounce** of gold is worth much money.

mention

v. to speak or write about something or someone briefly
synonym: reference, allude, cite
(1) **mention** name, (2) **mention** in a report
I **mentioned** to him that I had seen his sister at the grocery store earlier that day.

gorgeous

adj. wonderful and attractive
synonym: beautiful, stunning, attractive
(1) a **gorgeous** meal, (2) **gorgeous** sunset
She wore a **gorgeous** dress to the party, which everyone admired.

tissue

n. an ensemble of similar cells of the animal or plant that together carry out a specific function
synonym: structure, texture, anatomy
(1) a facial **tissue**, (2) loss of muscle **tissue**
The researcher separated the nervous **tissue** for microscopic examinations.

engineer

n. a person whose job is designing, building, or maintaining something such as machines, structures, or software

synonym : architect, creator, builder

(1) a civil **engineer**, (2) **engineer** shortage

The **engineer** will repair my telephone tomorrow morning.

lab

n. a workplace for the conduct of scientific research; a laboratory

synonym : workshop, laboratory, research chamber

(1) **lab** instrument, (2) medical **lab**

The Prime Minister will pay a courtesy visit to the Nobel laureate's **lab**.

replacement

n. the act of replacing something with something else, especially that is newer or better; a person or thing that takes or can take the place of another

synonym : alternate, substitute, backup

(1) regular **replacement** of tires, (2) **replacement** cost

We demand his **replacement**.

awesome

adj. inspiring fear, admiration, or respect; very good, nice, fun, etc.

synonym : miraculous, marvelous, astounding

(1) **awesome** mental faculty, (2) have an **awesome** birthday

There is a lot of **awesome** nature and food in Hawaii.

screening

n. the process of evaluating or testing individuals or objects to determine their suitability or potential problems; a showing of a film or movie for a select group of viewers before its general release

synonym : evaluation, assessment, appraisal

(1) **screening** tool, (2) health **screening**

His company requires employees to undergo a **screening** process.

process

n. a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or

approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

synonym : procedure, method, system

(1) **process** improvement, (2) decision-making **process**

The **process** for applying for a visa can be lengthy and complicated.

formulate

v. to create or develop a plan, system, theory, or formula; to express an idea or concept in a clear, precise manner

synonym : devise, develop, articulate

(1) **formulate** a response, (2) **formulate** idea

The scientists worked together to **formulate** a plan for their research project.

clinical

adj. of or relating to the examination and treatment of patients rather than theoretical or laboratory studies

synonym : dispassionate, analytic, scientific

(1) **clinical** surgery, (2) participate in **clinical** trials

She received special **clinical** training at the hospital.

unpredictable

adj. not capable of being foreseen or calculated; not regular or certain

synonym : uncertain, variable, random

(1) dangerously **unpredictable** person, (2) **unpredictable** outcome

The weather in this region is often **unpredictable**, with sudden rainstorms and strong winds.

consequence

n. the outcome of a particular action or event, especially relative to an individual

synonym : result, impact, outcome

(1) unintended **consequences**, (2) the **consequence** of an argument

These economic activities had disastrous environmental **consequences**.

humming

adj. producing a continuous, low, vibrating sound like that of the bee

synonym: buzzing, droning, vibrating

(1) **humming** sound, (2) **humming** bird

The **humming** of the bees filled the air as she walked through the garden.

incredible

adj. unbelievable; enormous

synonym: unbelievable, fantastical, inconceivable

(1) **incredible** amount, (2) at **incredible** speed

Her response revealed **incredible** idiocy.

differ

v. to be not like someone or something in some way

synonym: vary, diverge, disagree

(1) **differ** from the majority, (2) **differ** according to species

The two products **differed** in their quality and price.

metabolism

n. the set of chemical reactions in cells or organisms that are necessary for life-sustaining

(1) **metabolism** enzyme, (2) hemoglobin **metabolism**

Better sleep leads to increased **metabolism**.

mimic

v. to imitate someone's speech, movement, or behavior, especially to make others laugh

synonym: mirror, imitate, ape

(1) **mimic** a human voice, (2) **mimic** numerous instruments

He is very popular at school because he can **mimic** all the teachers' accents.

diversity

n. the quality or fact of many different types of things or people being included in something; a range of different things or people

synonym: variety, multiplicity, variousness

(1) the **diversity** policy of the university, (2) lingual **diversity**

He was impressed by the range and **diversity** of the collection.

induce

v. to persuade someone to do something; to cause to act in a specific manner

synonym : cause, encourage, persuade

(1) **induce** a crisis, (2) **induce** him to see a doctor

The lack of sleep **induces** both physical and psychological diseases.

pluripotent

adj. describing cells that have the potential to differentiate into any specialized cell in the body, often used in the context of stem cell research and applications

synonym : versatile, all-purpose, adaptable

(1) **pluripotent** embryonic cells, (2) **pluripotent** gene expression

Pluripotent stem cells can differentiate into any cell in the body.

stem

n. the central part of something from which other parts can develop or grow; the part of a word common to all its inflected variants; (verb) to grow out of, have roots in, or originate in

synonym : branch, limb, (verb) come from

(1) **stem** from a belief, (2) the **stem** of a matchstick

A rose has thorns on its **stem**.

develop

v. to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created

synonym : evolve, progress, advance

(1) **develop** a strategy, (2) **develop** a skill

We must **develop** a new system to streamline our workflow and increase efficiency.

embryonic

adj. of or relating to an embryo (= an animal organism in the early stages of growth); in an early stage of development

synonym :

embryonal

(1) **embryonic** stem cells, (2) **embryonic** development

The project is still in its **embryonic** stage.

controversy

n. a lot of discussion and argument about something, often involving strong feelings of anger or disapproval

synonym: disagreement, dispute, argument

(1) **controversy** among researchers, (2) arouse

controversy

They entered into **controversy** with the member of the ruling party.

gene

n. the fundamental unit of heredity and the sequence of nucleotides in DNA that codes for the creation of RNA or protein.

synonym: factor, cistron

(1) **gene** expression, (2) **gene** cloning

A defective **gene** is responsible for the disease.

harvest

n. yields of plants in a single growing season; the period of the year when gathering occurs on a farm

synonym: crop, reaping, yield

(1) a scanty **harvest**, (2) reap a **harvest**

During **harvest**, farmers are incredibly busy.

cellular

adj. of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires

synonym: organic, biological, nuclear

(1) **cellular** and molecular biology, (2) a **cellular** phone handset

This factory employs a **cellular** manufacturing system.

amnesia

n. a condition in which a person is unable to remember things, often as a result of brain damage, shock, or illness

synonym: forgetfulness, blackout, memory loss

(1) childhood **amnesia**, (2) **amnesia** by trauma

The accident caused her to suffer from temporary **amnesia**, and she couldn't remember anything that happened before the collision.

brain

n. the organ inside the head that is responsible for one's movement, thought, memory, and feeling

synonym: intellect, mind, encephalon

(1) basic **brain** function, (2) permanent **brain** damage

X-rays revealed a small tumor in his **brain**.

liver

n. a large organ in the body, involved in many metabolic processes, such as detoxification of the organism, and the synthesis of proteins

(1) **liver** disease, (2) fatty **liver**

The patient will undergo **liver** transplant surgery tomorrow.

chip

n. a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat

synonym: flake, fragment, chunk

(1) a **chip** of wood, (2) I don't care a **chip**

We can use this campaign as a bargaining **chip** in the negotiations.

generate

v. to produce or create something; to make offspring by reproduction

synonym: create, yield, produce

(1) **generate** more electricity, (2) **generate** \$100 a month

The economic stimulation program would **generate** a lot of new jobs.

predictable

adj. capable of being known, seen or declared in advance

synonym: foreseeable, expectable, likely

(1) **predictable** pattern, (2) in a **predictable** manner

The economy becomes more volatile and less **predictable**.

density

n. the quality of compactness of a substance

synonym : tightness, viscosity

(1) population **density**, (2) higher pixel **density**

Do you know the **density** of the population in Hong Kong?

adopt

v. to choose to follow something; to legally take a child from another family and care for them as if they were one's own

synonym : accept, assume, take on

(1) **adopt** a child, (2) **adopt** a bill

The national assembly has **adopted** the budget.

discovery

n. the act or process of finding information, a place, or an object, or learning about something that was previously not known

synonym : finding, uncovering, detection

(1) a scientific **discovery**, (2) the great **discovery** of the century

Her research team made an important **discovery**.

schematic

adj. relating to or in the form of a scheme or diagram; showing the structure or organization of something

synonym : diagrammatic, blueprint, structural

(1) **schematic** model, (2) simplified **schematic**

The engineer used a **schematic** diagram to plan out the wiring for the new building.

bioreactor

n. a device or system used to cultivate living cells, tissues, or organisms for industrial or research purposes

synonym : fermenter

(1) **bioreactor** engineering, (2) anaerobic **bioreactor**

The scientists optimized the conditions in the **bioreactor** to increase the yield of the desired product.

modular

adj. consisting of distinct or separable parts or units that can be joined together and form a complete whole

synonym : interchangeable, standard, transposable

(1) build a **modular** system, (2) **modular** furniture
Computers have a **modular** structure, making it easy to upgrade essential functions.

scalable

adj. capable of being easily expanded or increased in size, number, or scale to meet changing demands
synonym: expandable, flexible, adjustable

(1) **scalable** solution, (2) dynamically **scalable**
The company's new software is highly **scalable**, allowing it to handle increasing number of users.

massive

adj. enormous amount; very heavy and solid
synonym: enormous, giant, immense

(1) **massive** amounts, (2) **massive** stars
The recent economic downturn has resulted in **massive** layoffs.

parallel

adj. being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations

synonym: aligned, side-by-side, similar

(1) a **parallel** case, (2) **parallel** processing
He walked a road **parallel** to the railroad.

genetic

adj. of or relating to genes (= parts of the DNA in cells) or the science of genes

synonym: hereditary, genetical, inborn

(1) have **genetic** testing, (2) a **genetic** disorder
Understanding protein folding is a vital step in deciphering the **genetic** code.

disease

n. a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems

synonym: illness, ailment, affliction

(1) **disease** prevention, (2) **disease** control

The doctor diagnosed him with a rare **disease** that had no known cure.

technique

n. a particular way or art of doing something that needs skill

synonym: approach, procedure, strategy

(1) a **technique** in martial arts, (2) the **technique** applied to construction

Jockey's superior **technique** brought him victory.

neuron

n. a cell that is specialized to carry information within the brain and between the brain and other parts of the body

synonym: nerve cell

(1) excite the **neurons**, (2) **neuron** cell body

Our body transfers information along each **neuron** using an electrical impulse.

patient

n. a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic

synonym: client, recipient, subject

(1) **patient** in the hospital, (2) **patient** with weight loss

The doctor carefully examined the **patient's** medical history.

differentiate

v. to recognize or establish as being distinct; to distinguish between things that are compared; to calculate a derivative

synonym: discern, distinguish, separate

(1) **differentiate** between fact and fiction, (2) **differentiate** a function

The teacher asked the students to **differentiate** between the two similar species of birds.

amazing

adj. extremely surprising, especially in a way that you like or admire

synonym: exceptional, extraordinary, wonderful

(1) **amazing** advances, (2) the most **amazing** feeling
The golfer recorded an **amazing** distance.

symptom

n. any sensation or change in body or mind that is experienced by a patient and is associated with a particular disease

synonym: sign, manifestation, syndrome

(1) **symptoms** of low testosterone, (2) neurotic **symptoms**
The patient displays a **symptom** of a side effect.

specific

adj. clearly defined or particular to a certain thing or situation; distinct, explicit, and precise

synonym: particular, definite, distinct

(1) **specific** instructions, (2) industry- **specific** regulations
The scientist conducted a study that provided **specific** details about the species' behavior.

retinitis

n. an inflammation of the retina (= the thin, light-sensitive tissue that lines the inside surface of the eye) which can cause decreased vision or possibly lead to blindness

synonym: retinal inflammation, retinopathy

(1) **retinitis** treatment, (2) infectious **retinitis**
Retinitis pigmentosa is a group of genetic disorders that affect the retina's ability to respond to light.

pigment

n. a substance that gives color to a material, such as paint, ink, or biological tissue; often derived from natural sources or synthetically produced

synonym: dye, colorant, tint

(1) skin **pigment**, (2) **pigment** accumulation
The use of synthetic **pigments** in food production has become controversial due to health concerns.

degenerate

v. (of a person, animal, or plant) to become worse in health or physical condition

synonym: deteriorate, decline, decay

(1) **degenerate** into a disagreement, (2) **degenerate** into

recession

The once-thriving city has **degenerated** into a crime-ridden slum.

retina

n. the innermost light-sensitive membrane covering the back wall of the eyeball

(1) **retinal** cells, (2) **retina** scanner

Damage to the **retina** may play a role in the development of glaucoma.

organism

n. a tiny living thing

synonym: being, creature

(1) aerobic **organism**, (2) group of **organisms**

A diversified plant species generally enhances beneficial **organism** populations.

interact

v. to communicate or react with somebody

synonym: cooperate, combine, collaborate

(1) **interact** directly with customers, (2) **interact** with one another

He should **interact** more with his colleagues.

organ

n. a part of the body of an animal or plant that has a particular purpose and performs a specific job

synonym: function, structure

(1) **organ** bleeding, (2) damage to internal **organs**

These infections have the potential to impact practically every **organ** system.

byproduct

n. a secondary or incidental product produced in the manufacture or synthesis of something else

synonym: side effect, spinoff, outgrowth

(1) toxic **byproducts**, (2) **byproduct** of technology

The **byproduct** of the energy production process is a large amount of carbon dioxide emissions.

trend

n. a general direction in which something is changing or developing

synonym: direction, movement, tendency

(1) an international **trend**, (2) the **trend** away from television

The oil price continued their downward **trend**.

combine

v. to join or merge to form a single thing or group

synonym: coalesce, cohere, blend

(1) **combine** chemically with another substance,

(2) **combine** augmented reality

Hydrogen and oxygen **combine** to form water.

fluid

n. a substance that can flow and is not solid

synonym: liquid, aqua, sap

(1) plenty of **fluids**, (2) **fluid** assets

She was diagnosed with a **fluid** buildup in her lungs.

evolve

v. to develop gradually, or to cause the development of something or someone gradually

synonym: develop, mature, grow

(1) **evolve**, (2) **evolve** over the past decade

Eyeless fish **evolved** in dark caves.

ecosystem

n. all the plants and living creatures in an area and the way they affect each other and the environment

(1) marine **ecosystem**, (2) change the **ecosystem**

Human conservation efforts often fail unexpectedly because they disturb the balance of the **ecosystem**.

antidepressant

n. any of a class of drugs used to reduce feelings of sadness and worry

(1) an **antidepressant** drug, (2) **antidepressant** effect

She has been taking **antidepressants** since her baby died.

approve

v. to think that someone or something is favorable, acceptable, or appropriate; to officially accept a plan, request, etc.

synonym: accept, authorize, agree

(1) **approve** a measures, (2) unanimously **approve** a resolution

My boss wouldn't **approve** of the plan.

personalize

v. to make something or an experience specific to an individual or group, often through adding personal details or tailoring it to their preferences or needs; to add personal details or information to something

synonym: customize, individualize, tailor

(1) **personalize** social media profile, (2) **personalize** my workspace

I like to **personalize** my phone case with a picture of my dog.

treatment

n. the way in which someone deals with or behaves towards someone or something; medical care provided to a patient for an injury or illness.

synonym: remedy, antidote, medicine

(1) first-aid **treatment**, (2) **treatment** by diet

The primary purpose of the **treatment** is pain relief.

cancer

n. abnormal growth of cells that can invade and destroy surrounding tissues and organs; a disease characterized by the uncontrolled growth and spread of abnormal cells

synonym: tumor, carcinoma, malignancy

(1) **cancer** diagnosis, (2) **cancer** research

Breast **cancer** is the most common type of cancer in women.

ink-jet

adj. of or relating to a type of printing technology commonly used in printers and other imaging devices that is a method of producing hard copies of digital images or documents by propelling tiny droplets of ink onto paper or other printable surfaces

(1) **ink-jet** printing, (2) **ink-jet** droplet

The printer used **ink-jet** technology for high-quality prints.

breast

n. either of the two round soft parts of a woman's chest which secrete milk after childbirth

synonym : bosom, chest, bust

(1) **breast** cancer, (2) the mountain's **breast**

He grilled the **breast** meat of a chicken.

progression

n. the act or process of changing to the next stage or phase or moving forward

synonym : advancement, development, evolution

(1) **progression** of civilization, (2) **progression** of disease

The company has made great strides in its **progression** toward sustainability.

colleague

n. one of a group of a coworker, especially in a profession or a business

synonym : coworker, associate, fellow

(1) collaborate with **colleagues**, (2) former **colleague**

I decided to seek counseling on the advice of my **colleague**.

generation

n. all the people born and living at about the same time, regarded collectively; the production of heat or electricity

synonym : cohort, age group, era

(1) **generation** gap, (2) the **generation** of electricity

The younger **generation** has different values and beliefs than the older one.

discuss

v. to talk about or examine in detail through conversation or debate; to exchange ideas, opinions, or information on a particular topic

synonym : talk about, converse, debate

(1) **discuss** options, (2) **discuss** solutions

We need to **discuss** the next steps for the project during our meeting tomorrow.

poise

n. a calm, confident, and graceful manner with control of your feelings or behavior

synonym : confidence, grace, calmness

(1) aesthetic **poise**, (2) with easy **poise**

He took a deep breath and recovered a little of his **poise**.

revolutionize

v. to bring about a complete or radical change in something, often through the introduction of new methods or ideas

synonym: transform, innovate, modernize

(1) **revolutionize** the industry, (2) **revolutionize** the technology

The invention of the smartphone **revolutionized** the way we communicate with each other.

individualize

v. to make something personal or more personal to suit the needs of a particular person, place, etc.

synonym: personalize, differentiate

(1) **individualize** each patient, (2) **individualize** dosages

Our schools offer **individualized** education by excellent teachers.

therapy

n. the act of caring for someone through medication, remedial training, etc.

synonym: antidote, medicine, treatment

(1) **therapy** for a patient, (2) field of gene **therapy**

I underwent aversion **therapy** for my addiction to alcohol.

disrupt

v. to prevent or stop something, especially an event, activity, or process, from continuing in the usual way by causing a problem or disturbance

synonym: interrupt, disturb, break into

(1) **disrupt** a well-ordered condition, (2) **disrupt** sleep

I'm so sorry to **disrupt** you when you're pretty busy.

essentially

adv. relating to the essential features or concepts of anything

synonym: fundamentally, basically, virtually

(1) **essentially** correct, (2) become **essentially** same

Essentially, a society is an organism.

dramatically

adv. in a very impressive manner

synonym : greatly, noticeably, suddenly

(1) he confessed **dramatically**, (2) the cabin pressure fell **dramatically**

Life expectancy has grown **dramatically** this century.

molecule

n. a group of two or more atoms held together by attractive forces known as chemical bonds

synonym : particle, element, atom

(1) small **molecules**, (2) **molecule** behavior

The shape of the DNA **molecule** is a double helix.

transform

v. to change in outward structure or looks;

synonym : alter, convert, change

(1) **transform** an education system, (2) **transform** heat into power

My father's death **transformed** my life completely.

biotechnology

n. the application of technological processes and methods to biological systems to develop new products or techniques, such as genetically modified organisms or biopharmaceuticals

synonym : genetic engineering, bioengineering, genetic modification

(1) **biotechnology** research, (2) modern **biotechnology**

Advancements in **biotechnology** have revolutionized medicine and agriculture.

pharmacology

n. the branch of medicine concerned with the study of drugs and their effects on the body, including their properties, uses, and interactions with other substances

synonym : pharmacy, pharmaceuticals

(1) **pharmacology** research, (2) **pharmacology** textbook

Medical professionals must stay up-to-date with the latest developments in **pharmacology** to ensure optimal patient care.

evaluate

v. to assess or estimate the quality, significance, quantity, or value of something

synonym: assess, estimate, consider

(1) **evaluate** the grant proposal, (2) **evaluate** a situation

The meeting aims to **evaluate** possible choices.

cheaply

adv. in a stingy or inexpensive manner

synonym: inexpensively, tattily, stingily

(1) **cheaply** available, (2) buy stock **cheaply**

You can live very **cheaply** in Southeast Asia.

Session 2: Spelling

- | | |
|---|--|
| 1. a te_____ue in martial arts | <i>n.</i> a particular way or art of doing something that needs skill |
| 2. dif_____ate between fact and fiction | <i>v.</i> to recognize or establish as being distinct; to distinguish between things that are compared; to calculate a derivative |
| 3. have an ou__e of confidence | <i>n.</i> a unit of weight equal to approximately 28 grams |
| 4. di_____t a well-ordered condition | <i>v.</i> to prevent or stop something, especially an event, activity, or process, from continuing in the usual way by causing a problem or disturbance |
| 5. ev___e over the past decade | <i>v.</i> to develop gradually, or to cause the development of something or someone gradually |
| 6. higher pixel de_____y | <i>n.</i> the quality of compactness of a substance |
| 7. de_____p a skill | <i>v.</i> to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created |
| 8. the great di_____ry of the century | <i>n.</i> the act or process of finding information, a place, or an object, or learning about something that was previously not known |

ANSWERS: 1. technique, 2. differentiate, 3. ounce, 4. disrupt, 5. evolve, 6. density, 7. develop, 8. discovery

9. pha_____ogy research *n.* the branch of medicine concerned with the study of drugs and their effects on the body, including their properties, uses, and interactions with other substances
10. infectious re_____is *n.* an inflammation of the retina (= the thin, light-sensitive tissue that lines the inside surface of the eye) which can cause decreased vision or possibly lead to blindness
11. sc_____le solution *adj.* capable of being easily expanded or increased in size, number, or scale to meet changing demands
12. a ge_____c disorder *adj.* of or relating to genes (= parts of the DNA in cells) or the science of genes
13. unintended con_____ces *n.* the outcome of a particular action or event, especially relative to an individual
14. in_____t droplet *adj.* of or relating to a type of printing technology commonly used in printers and other imaging devices that is a method of producing hard copies of digital images or documents by propelling tiny droplets of ink onto paper or other printable surfaces
15. have an aw_____e birthday *adj.* inspiring fear, admiration, or respect; very good, nice, fun, etc.
16. s__m from a belief *n.* the central part of something from which other parts can develop or grow; the part of a word common to all its inflected variants; (verb) to grow out of, have roots in, or originate in

ANSWERS: 9. pharmacology, 10. retinitis, 11. scalable, 12. genetic, 13. consequence, 14. ink-jet, 15. awesome, 16. stem

17. ge____te more electricity *v.* to produce or create something; to make offspring by reproduction
18. health sc_____ng *n.* the process of evaluating or testing individuals or objects to determine their suitability or potential problems; a showing of a film or movie for a select group of viewers before its general release
19. di_____s solutions *v.* to talk about or examine in detail through conversation or debate; to exchange ideas, opinions, or information on a particular topic
20. ev_____te a situation *v.* to assess or estimate the quality, significance, quantity, or value of something
21. mo_____le behavior *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
22. reap a ha_____t *n.* yields of plants in a single growing season; the period of the year when gathering occurs on a farm
23. he confessed dra_____lly *adv.* in a very impressive manner
24. de_____p a strategy *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
25. unanimously ap_____e a resolution *v.* to think that someone or something is favorable, acceptable, or appropriate; to officially accept a plan, request, etc.

ANSWERS: 17. generate, 18. screening, 19. discuss, 20. evaluate, 21. molecule, 22. harvest, 23. dramatically, 24. develop, 25. approve

26. ge____te \$100 a month *v.* to produce or create something; to make offspring by reproduction
27. toxic by_____cts *n.* a secondary or incidental product produced in the manufacture or synthesis of something else
28. mi__c a human voice *v.* to imitate someone's speech, movement, or behavior, especially to make others laugh
29. ch_____y available *adv.* in a stingy or inexpensive manner
30. br____t cancer *n.* either of the two round soft parts of a woman's chest which secrete milk after childbirth
31. aerobic or_____sm *n.* a tiny living thing
32. deg_____te into recession *v.* (of a person, animal, or plant) to become worse in health or physical condition
33. pa_____el processing *adj.* being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations
34. ant_____ant effect *n.* any of a class of drugs used to reduce feelings of sadness and worry
35. plenty of fl__ds *n.* a substance that can flow and is not solid
36. dynamically sc_____le *adj.* capable of being easily expanded or increased in size, number, or scale to meet changing demands
37. ind_____ize dosages *v.* to make something personal or more personal to suit the needs of a particular person, place, etc.

ANSWERS: 26. generate, 27. byproduct, 28. mimic, 29. cheaply, 30. breast, 31. organism, 32. degenerate, 33. parallel, 34. antidepressant, 35. fluid, 36. scalable, 37. individualize

38. pa____t in the hospital
n. a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic
39. a go____us meal
adj. wonderful and attractive
40. a scientific di____ry
n. the act or process of finding information, a place, or an object, or learning about something that was previously not known
41. inc____le amount
adj. unbelievable; enormous
42. an international tr__d
n. a general direction in which something is changing or developing
43. excite the ne____ns
n. a cell that is specialized to carry information within the brain and between the brain and other parts of the body
44. the tr__d away from television
n. a general direction in which something is changing or developing
45. ev____e
v. to develop gradually, or to cause the development of something or someone gradually
46. plu____nt embryonic cells
adj. describing cells that have the potential to differentiate into any specialized cell in the body, often used in the context of stem cell research and applications
47. a facial ti____e
n. an ensemble of similar cells of the animal or plant that together carry out a specific function

ANSWERS: 38. patient, 39. gorgeous, 40. discovery, 41. incredible, 42. trend, 43. neuron, 44. trend, 45. evolve, 46. pluripotent, 47. tissue

48. neurotic sy_____ms *n.* any sensation or change in body or mind that is experienced by a patient and is associated with a particular disease
49. tr_____rm an education system *v.* to change in outward structure or looks;
50. em_____ic development *adj.* of or relating to an embryo (= an animal organism in the early stages of growth); in an early stage of development
51. small mo_____les *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
52. arouse con_____sy *n.* a lot of discussion and argument about something, often involving strong feelings of anger or disapproval
53. regular rep_____nt of tires *n.* the act of replacing something with something else, especially that is newer or better; a person or thing that takes or can take the place of another
54. pro_____on of civilization *n.* the act or process of changing to the next stage or phase or moving forward
55. by_____ct of technology *n.* a secondary or incidental product produced in the manufacture or synthesis of something else
56. bio_____ogy research *n.* the application of technological processes and methods to biological systems to develop new products or techniques, such as genetically modified organisms or biopharmaceuticals

ANSWERS: 48. symptom, 49. transform, 50. embryonic, 51. molecule, 52. controversy, 53. replacement, 54. progression, 55. byproduct, 56. biotechnology

57. hemoglobin met_____sm *n.* the set of chemical reactions in cells or organisms that are necessary for life-sustaining
58. in___e him to see a doctor *v.* to persuade someone to do something; to cause to act in a specific manner
59. th_____y for a patient *n.* the act of caring for someone through medication, remedial training, etc.
60. the di_____ty policy of the university *n.* the quality or fact of many different types of things or people being included in something; a range of different things or people
61. the gen_____on of electricity *n.* all the people born and living at about the same time, regarded collectively; the production of heat or electricity
62. rep_____nt cost *n.* the act of replacing something with something else, especially that is newer or better; a person or thing that takes or can take the place of another
63. ma_____e amounts *adj.* enormous amount; very heavy and solid
64. di_____e control *n.* a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems
65. simplified sc_____ic *adj.* relating to or in the form of a scheme or diagram; showing the structure or organization of something
66. aesthetic po___e *n.* a calm, confident, and graceful manner with control of your feelings or behavior
67. a ce_____ar phone handset *adj.* of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires

ANSWERS: 57. metabolism, 58. induce, 59. therapy, 60. diversity, 61. generation, 62. replacement, 63. massive, 64. disease, 65. schematic, 66. poise, 67. cellular

68. collaborate with co_____ues *n.* one of a group of a coworker, especially in a profession or a business
69. at inc_____le speed *adj.* unbelievable; enormous
70. dif_____ate a function *v.* to recognize or establish as being distinct; to distinguish between things that are compared; to calculate a derivative
71. tr_____nt by diet *n.* the way in which someone deals with or behaves towards someone or something; medical care provided to a patient for an injury or illness.
72. in_____ct directly with customers *v.* to communicate or react with somebody
73. or__n bleeding *n.* a part of the body of an animal or plant that has a particular purpose and performs a specific job
74. g__e cloning *n.* the fundamental unit of heredity and the sequence of nucleotides in DNA that codes for the creation of RNA or protein.
75. hu_____g bird *adj.* producing a continuous, low, vibrating sound like that of the bee
76. dangerously unp_____ble person *adj.* not capable of being foreseen or calculated; not regular or certain
77. unp_____ble outcome *adj.* not capable of being foreseen or calculated; not regular or certain
78. cl_____al surgery *adj.* of or relating to the examination and treatment of patients rather than theoretical or laboratory studies

ANSWERS: 68. colleague, 69. incredible, 70. differentiate, 71. treatment, 72. interact, 73. organ, 74. gene, 75. humming, 76. unpredictable, 77. unpredictable, 78. clinical

79. an ant_____ant drug *n.* any of a class of drugs used to reduce feelings of sadness and worry
80. population de_____y *n.* the quality of compactness of a substance
81. the cabin pressure fell dra_____lly *adv.* in a very impressive manner
82. sy_____ms of low testosterone *n.* any sensation or change in body or mind that is experienced by a patient and is associated with a particular disease
83. am_____g advances *adj.* extremely surprising, especially in a way that you like or admire
84. sc_____ng tool *n.* the process of evaluating or testing individuals or objects to determine their suitability or potential problems; a showing of a film or movie for a select group of viewers before its general release
85. en_____er shortage *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
86. fo_____te idea *v.* to create or develop a plan, system, theory, or formula; to express an idea or concept in a clear, precise manner
87. per_____ze social media profile *v.* to make something or an experience specific to an individual or group, often through adding personal details or tailoring it to their preferences or needs; to add personal details or information to something

ANSWERS: 79. antidepressant, 80. density, 81. dramatically, 82. symptom, 83. amazing, 84. screening, 85. engineer, 86. formulate, 87. personalize

88. ev____te the grant proposal *v.* to assess or estimate the quality, significance, quantity, or value of something
89. medical l_b *n.* a workplace for the conduct of scientific research; a laboratory
90. former co____ue *n.* one of a group of a coworker, especially in a profession or a business
91. buy stock ch____y *adv.* in a stingy or inexpensive manner
92. go____us sunset *adj.* wonderful and attractive
93. di____s options *v.* to talk about or examine in detail through conversation or debate; to exchange ideas, opinions, or information on a particular topic
94. me____n in a report *v.* to speak or write about something or someone briefly
95. co____e augmented reality *v.* to join or merge to form a single thing or group
96. fatty li__r *n.* a large organ in the body, involved in many metabolic processes, such as detoxification of the organism, and the synthesis of proteins
97. pr____s improvement *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

ANSWERS: 88. evaluate, 89. lab, 90. colleague, 91. cheaply, 92. gorgeous, 93. discuss, 94. mention, 95. combine, 96. liver, 97. process

98. the s__m of a matchstick *n.* the central part of something from which other parts can develop or grow; the part of a word common to all its inflected variants; (verb) to grow out of, have roots in, or originate in
99. first-aid tr_____nt *n.* the way in which someone deals with or behaves towards someone or something; medical care provided to a patient for an injury or illness.
100. ma_____e stars *adj.* enormous amount; very heavy and solid
101. am_____a by trauma *n.* a condition in which a person is unable to remember things, often as a result of brain damage, shock, or illness
102. rev_____ize the industry *v.* to bring about a complete or radical change in something, often through the introduction of new methods or ideas
103. lingual di_____ty *n.* the quality or fact of many different types of things or people being included in something; a range of different things or people
104. ad__t a child *v.* to choose to follow something; to legally take a child from another family and care for them as if they were one's own
105. a pa_____el case *adj.* being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations
106. the most am_____g feeling *adj.* extremely surprising, especially in a way that you like or admire

ANSWERS: 98. stem, 99. treatment, 100. massive, 101. amnesia, 102. revolutionize, 103. diversity, 104. adopt, 105. parallel, 106. amazing

107. industry-sp_____ic regulations	<i>adj.</i> clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
108. loss of muscle ti_____e	<i>n.</i> an ensemble of similar cells of the animal or plant that together carry out a specific function
109. damage to internal or____ns	<i>n.</i> a part of the body of an animal or plant that has a particular purpose and performs a specific job
110. a civil en_____er	<i>n.</i> a person whose job is designing, building, or maintaining something such as machines, structures, or software
111. re_____al cells	<i>n.</i> the innermost light-sensitive membrane covering the back wall of the eyeball
112. with easy po____e	<i>n.</i> a calm, confident, and graceful manner with control of your feelings or behavior
113. modern bio_____ogy	<i>n.</i> the application of technological processes and methods to biological systems to develop new products or techniques, such as genetically modified organisms or biopharmaceuticals
114. mi____c numerous instruments	<i>v.</i> to imitate someone's speech, movement, or behavior, especially to make others laugh
115. ess_____ly correct	<i>adv.</i> relating to the essential features or concepts of anything
116. bio_____or engineering	<i>n.</i> a device or system used to cultivate living cells, tissues, or organisms for industrial or research purposes

ANSWERS: 107. specific, 108. tissue, 109. organ, 110. engineer, 111. retina, 112. poise, 113. biotechnology, 114. mimic, 115. essentially, 116. bioreactor

117. basic br__n function *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
118. fo_____te a response *v.* to create or develop a plan, system, theory, or formula; to express an idea or concept in a clear, precise manner
119. g__e expression *n.* the fundamental unit of heredity and the sequence of nucleotides in DNA that codes for the creation of RNA or protein.
120. rev_____ize the technology *v.* to bring about a complete or radical change in something, often through the introduction of new methods or ideas
121. pre_____le pattern *adj.* capable of being known, seen or declared in advance
122. mo_____r furniture *adj.* consisting of distinct or separable parts or units that can be joined together and form a complete whole
123. in_____ct with one another *v.* to communicate or react with somebody
124. group of or_____sms *n.* a tiny living thing
125. change the ec_____em *n.* all the plants and living creatures in an area and the way they affect each other and the environment
126. tr_____rm heat into power *v.* to change in outward structure or looks;
127. con_____sy among researchers *n.* a lot of discussion and argument about something, often involving strong feelings of anger or disapproval
128. the mountain's br____t *n.* either of the two round soft parts of a woman's chest which secrete milk after childbirth

ANSWERS: 117. brain, 118. formulate, 119. gene, 120. revolutionize, 121. predictable, 122. modular, 123. interact, 124. organism, 125. ecosystem, 126. transform, 127. controversy, 128. breast

129. ne___n cell body *n.* a cell that is specialized to carry information within the brain and between the brain and other parts of the body
130. I don't care a c__p *n.* a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat
131. decision-making pr____s *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
132. di____t sleep *v.* to prevent or stop something, especially an event, activity, or process, from continuing in the usual way by causing a problem or disturbance
133. pa____t with weight loss *n.* a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic
134. pha____ogy textbook *n.* the branch of medicine concerned with the study of drugs and their effects on the body, including their properties, uses, and interactions with other substances
135. di___r according to species *v.* to be not like someone or something in some way

ANSWERS: 129. neuron, 130. chip, 131. process, 132. disrupt, 133. patient, 134. pharmacology, 135. differ

136. have ge____c testing *adj.* of or relating to genes (= parts of the DNA in cells) or the science of genes
137. ap____e a measures *v.* to think that someone or something is favorable, acceptable, or appropriate; to officially accept a plan, request, etc.
138. met____sm enzyme *n.* the set of chemical reactions in cells or organisms that are necessary for life-sustaining
139. participate in cl____al trials *adj.* of or relating to the examination and treatment of patients rather than theoretical or laboratory studies
140. re____is treatment *n.* an inflammation of the retina (= the thin, light-sensitive tissue that lines the inside surface of the eye) which can cause decreased vision or possibly lead to blindness
141. ind____ize each patient *v.* to make something personal or more personal to suit the needs of a particular person, place, etc.
142. gen____on gap *n.* all the people born and living at about the same time, regarded collectively; the production of heat or electricity
143. a c__p of wood *n.* a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat
144. di____e prevention *n.* a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems

ANSWERS: 136. genetic, 137. approve, 138. metabolism, 139. clinical, 140. retinitis, 141. individualize, 142. generation, 143. chip, 144. disease

145. deg_____te into a disagreement *v.* (of a person, animal, or plant) to become worse in health or physical condition
146. aw_____e mental faculty *adj.* inspiring fear, admiration, or respect; very good, nice, fun, etc.
147. in_____e a crisis *v.* to persuade someone to do something; to cause to act in a specific manner
148. ce_____ar and molecular biology *adj.* of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires
149. the te_____ue applied to construction *n.* a particular way or art of doing something that needs skill
150. sc_____ic model *adj.* relating to or in the form of a scheme or diagram; showing the structure or organization of something
151. di_____r from the majority *v.* to be not like someone or something in some way
152. em_____ic stem cells *adj.* of or relating to an embryo (= an animal organism in the early stages of growth); in an early stage of development
153. plu_____nt gene expression *adj.* describing cells that have the potential to differentiate into any specialized cell in the body, often used in the context of stem cell research and applications
154. field of gene th_____y *n.* the act of caring for someone through medication, remedial training, etc.
155. sp_____ic instructions *adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise

ANSWERS: 145. degenerate, 146. awesome, 147. induce, 148. cellular, 149. technique, 150. schematic, 151. differ, 152. embryonic, 153. pluripotent, 154. therapy, 155. specific

156. skin pi____t *n.* a substance that gives color to a material, such as paint, ink, or biological tissue; often derived from natural sources or synthetically produced
157. permanent br__n damage *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
158. l_b instrument *n.* a workplace for the conduct of scientific research; a laboratory
159. re___a scanner *n.* the innermost light-sensitive membrane covering the back wall of the eyeball
160. per_____ze my workspace *v.* to make something or an experience specific to an individual or group, often through adding personal details or tailoring it to their preferences or needs; to add personal details or information to something
161. marine ec_____em *n.* all the plants and living creatures in an area and the way they affect each other and the environment
162. a scanty ha____t *n.* yields of plants in a single growing season; the period of the year when gathering occurs on a farm
163. hu____g sound *adj.* producing a continuous, low, vibrating sound like that of the bee
164. in a pre_____le manner *adj.* capable of being known, seen or declared in advance
165. childhood am____a *n.* a condition in which a person is unable to remember things, often as a result of brain damage, shock, or illness

ANSWERS: 156. pigment, 157. brain, 158. lab, 159. retina, 160. personalize, 161. ecosystem, 162. harvest, 163. humming, 164. predictable, 165. amnesia

166. co____e chemically with another substance *v.* to join or merge to form a single thing or group
167. fl__d assets *n.* a substance that can flow and is not solid
168. in____t printing *adj.* of or relating to a type of printing technology commonly used in printers and other imaging devices that is a method of producing hard copies of digital images or documents by propelling tiny droplets of ink onto paper or other printable surfaces
169. anaerobic bio____or *n.* a device or system used to cultivate living cells, tissues, or organisms for industrial or research purposes
170. pi____t accumulation *n.* a substance that gives color to a material, such as paint, ink, or biological tissue; often derived from natural sources or synthetically produced
171. pro____on of disease *n.* the act or process of changing to the next stage or phase or moving forward
172. ou__e weight *n.* a unit of weight equal to approximately 28 grams
173. build a mo____r system *adj.* consisting of distinct or separable parts or units that can be joined together and form a complete whole
174. me____n name *v.* to speak or write about something or someone briefly
175. ca____r diagnosis *n.* abnormal growth of cells that can invade and destroy surrounding tissues and organs; a disease characterized by the uncontrolled growth and spread of abnormal cells

ANSWERS: 166. combine, 167. fluid, 168. ink-jet, 169. bioreactor, 170. pigment, 171. progression, 172. ounce, 173. modular, 174. mention, 175. cancer

176. ca___r research *n.* abnormal growth of cells that can invade and destroy surrounding tissues and organs; a disease characterized by the uncontrolled growth and spread of abnormal cells
177. the con_____ce of an argument *n.* the outcome of a particular action or event, especially relative to an individual
178. ad__t a bill *v.* to choose to follow something; to legally take a child from another family and care for them as if they were one's own
179. become ess_____ly same *adv.* relating to the essential features or concepts of anything
180. li__r disease *n.* a large organ in the body, involved in many metabolic processes, such as detoxification of the organism, and the synthesis of proteins

ANSWERS: 176. cancer, 177. consequence, 178. adopt, 179. essentially, 180. liver

Session 3: Fill in the Blanks

1. A defective _____ is responsible for the disease.
n. the fundamental unit of heredity and the sequence of nucleotides in DNA that codes for the creation of RNA or protein.

2. There is a lot of _____ nature and food in Hawaii.
adj. inspiring fear, admiration, or respect; very good, nice, fun, etc.

3. I decided to seek counseling on the advice of my _____.
n. one of a group of a coworker, especially in a profession or a business

4. A rose has thorns on its _____.
n. the central part of something from which other parts can develop or grow; the part of a word common to all its inflected variants; (verb) to grow out of, have roots in, or originate in

5. Her research team made an important _____.
n. the act or process of finding information, a place, or an object, or learning about something that was previously not known

6. _____ a society is an organism.
adv. relating to the essential features or concepts of anything

7. You can live very _____ in Southeast Asia.
adv. in a stingy or inexpensive manner

8. My father's death _____ my life completely.
v. to change in outward structure or looks;

ANSWERS: 1. gene, 2. awesome, 3. colleague, 4. stem, 5. discovery, 6. Essentially, 7. cheaply, 8. transformed

9. We need to _____ the next steps for the project during our meeting tomorrow.
v. to talk about or examine in detail through conversation or debate; to exchange ideas, opinions, or information on a particular topic
10. The _____ of the bees filled the air as she walked through the garden.
adj. producing a continuous, low, vibrating sound like that of the bee
11. The two products _____ in their quality and price.
v. to be not like someone or something in some way
12. Life expectancy has grown _____ this century.
adv. in a very impressive manner
13. Do you know the _____ of the population in Hong Kong?
n. the quality of compactness of a substance
14. We can use this campaign as a bargaining _____ in the negotiations.
n. a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat
15. Her response revealed _____ idiocy.
adj. unbelievable; enormous
16. I'm so sorry to _____ you when you're pretty busy.
v. to prevent or stop something, especially an event, activity, or process, from continuing in the usual way by causing a problem or disturbance
17. We demand his _____.
n. the act of replacing something with something else, especially that is newer or better; a person or thing that takes or can take the place of another

ANSWERS: 9. discuss, 10. humming, 11. differed, 12. dramatically, 13. density, 14. chip, 15. incredible, 16. disrupt, 17. replacement

18. The recent economic downturn has resulted in _____ layoffs.

adj. enormous amount; very heavy and solid

19. The shape of the DNA _____ is a double helix.

n. a group of two or more atoms held together by attractive forces known as chemical bonds

20. She wore a _____ dress to the party, which everyone admired.

adj. wonderful and attractive

21. One _____ of gold is worth much money.

n. a unit of weight equal to approximately 28 grams

22. These infections have the potential to impact practically every _____ system.

n. a part of the body of an animal or plant that has a particular purpose and performs a specific job

23. Hydrogen and oxygen _____ to form water.

v. to join or merge to form a single thing or group

24. During _____ farmers are incredibly busy.

n. yields of plants in a single growing season; the period of the year when gathering occurs on a farm

25. The engineer used a _____ diagram to plan out the wiring for the new building.

adj. relating to or in the form of a scheme or diagram; showing the structure or organization of something

ANSWERS: 18. massive, 19. molecule, 20. gorgeous, 21. ounce, 22. organ, 23. combine, 24. harvest, 25. schematic

26. She has been taking _____ since her baby died.
- n.* any of a class of drugs used to reduce feelings of sadness and worry
27. The _____ of the energy production process is a large amount of carbon dioxide emissions.
- n.* a secondary or incidental product produced in the manufacture or synthesis of something else
28. The company has made great strides in its _____ toward sustainability.
- n.* the act or process of changing to the next stage or phase or moving forward
29. He is very popular at school because he can _____ all the teachers' accents.
- v.* to imitate someone's speech, movement, or behavior, especially to make others laugh
30. She received special _____ training at the hospital.
- adj.* of or relating to the examination and treatment of patients rather than theoretical or laboratory studies
31. Medical professionals must stay up-to-date with the latest developments in _____ to ensure optimal patient care.
- n.* the branch of medicine concerned with the study of drugs and their effects on the body, including their properties, uses, and interactions with other substances
32. We must _____ a new system to streamline our workflow and increase efficiency.
- v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created

ANSWERS: 26. antidepressants, 27. byproduct, 28. progression, 29. mimic, 30. clinical, 31. pharmacology, 32. develop

33. _____ pigmentosa is a group of genetic disorders that affect the retina's ability to respond to light.
- n.* an inflammation of the retina (= the thin, light-sensitive tissue that lines the inside surface of the eye) which can cause decreased vision or possibly lead to blindness
34. Better sleep leads to increased _____.
- n.* the set of chemical reactions in cells or organisms that are necessary for life-sustaining
35. The meeting aims to _____ possible choices.
- v.* to assess or estimate the quality, significance, quantity, or value of something
36. I underwent aversion _____ for my addiction to alcohol.
- n.* the act of caring for someone through medication, remedial training, etc.
37. Computers have a _____ structure, making it easy to upgrade essential functions.
- adj.* consisting of distinct or separable parts or units that can be joined together and form a complete whole
38. The Prime Minister will pay a courtesy visit to the Nobel laureate's ____.
- n.* a workplace for the conduct of scientific research; a laboratory
39. A diversified plant species generally enhances beneficial _____ populations.
- n.* a tiny living thing
40. The lack of sleep _____ both physical and psychological diseases.
- v.* to persuade someone to do something; to cause to act in a specific manner

ANSWERS: 33. Retinitis, 34. metabolism, 35. evaluate, 36. therapy, 37. modular, 38. lab, 39. organism, 40. induces

41. The patient displays a _____ of a side effect.

n. any sensation or change in body or mind that is experienced by a patient and is associated with a particular disease

42. He walked a road _____ to the railroad.

adj. being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations

43. This factory employs a _____ manufacturing system.

adj. of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires

44. The patient will undergo _____ transplant surgery tomorrow.

n. a large organ in the body, involved in many metabolic processes, such as detoxification of the organism, and the synthesis of proteins

45. X-rays revealed a small tumor in his _____.

n. the organ inside the head that is responsible for one's movement, thought, memory, and feeling

46. Our schools offer _____ education by excellent teachers.

v. to make something personal or more personal to suit the needs of a particular person, place, etc.

47. Our body transfers information along each _____ using an electrical impulse.

n. a cell that is specialized to carry information within the brain and between the brain and other parts of the body

48. The golfer recorded an _____ distance.

adj. extremely surprising, especially in a way that you like or admire

ANSWERS: 41. symptom, 42. parallel, 43. cellular, 44. liver, 45. brain, 46. individualized, 47. neuron, 48. amazing

49. The weather in this region is often _____ with sudden rainstorms and strong winds.
adj. not capable of being foreseen or calculated; not regular or certain
50. The use of synthetic _____ in food production has become controversial due to health concerns.
n. a substance that gives color to a material, such as paint, ink, or biological tissue; often derived from natural sources or synthetically produced
51. The accident caused her to suffer from temporary _____ and she couldn't remember anything that happened before the collision.
n. a condition in which a person is unable to remember things, often as a result of brain damage, shock, or illness
52. My boss wouldn't _____ of the plan.
v. to think that someone or something is favorable, acceptable, or appropriate; to officially accept a plan, request, etc.
53. He was impressed by the range and _____ of the collection.
n. the quality or fact of many different types of things or people being included in something; a range of different things or people
54. The invention of the smartphone _____ the way we communicate with each other.
v. to bring about a complete or radical change in something, often through the introduction of new methods or ideas
55. The researcher separated the nervous _____ for microscopic examinations.
n. an ensemble of similar cells of the animal or plant that together carry out a specific function

ANSWERS: 49. unpredictable, 50. pigments, 51. amnesia, 52. approve, 53. diversity, 54. revolutionized, 55. tissue

56. They entered into _____ with the member of the ruling party.
n. a lot of discussion and argument about something, often involving strong feelings of anger or disapproval
57. The national assembly has _____ the budget.
v. to choose to follow something; to legally take a child from another family and care for them as if they were one's own
58. He should _____ more with his colleagues.
v. to communicate or react with somebody
59. The economy becomes more volatile and less _____.
adj. capable of being known, seen or declared in advance
60. The printer used _____ technology for high-quality prints.
adj. of or relating to a type of printing technology commonly used in printers and other imaging devices that is a method of producing hard copies of digital images or documents by propelling tiny droplets of ink onto paper or other printable surfaces
61. The primary purpose of the _____ is pain relief.
n. the way in which someone deals with or behaves towards someone or something; medical care provided to a patient for an injury or illness.
62. Jockey's superior _____ brought him victory.
n. a particular way or art of doing something that needs skill
63. The scientists optimized the conditions in the _____ to increase the yield of the desired product.
n. a device or system used to cultivate living cells, tissues, or organisms for industrial or research purposes

ANSWERS: 56. controversy, 57. adopted, 58. interact, 59. predictable, 60. ink-jet, 61. treatment, 62. technique, 63. bioreactor

64. I like to _____ my phone case with a picture of my dog.
- v. to make something or an experience specific to an individual or group, often through adding personal details or tailoring it to their preferences or needs; to add personal details or information to something
65. He took a deep breath and recovered a little of his _____.
- n. a calm, confident, and graceful manner with control of your feelings or behavior
66. The teacher asked the students to _____ between the two similar species of birds.
- v. to recognize or establish as being distinct; to distinguish between things that are compared; to calculate a derivative
67. She was diagnosed with a _____ buildup in her lungs.
- n. a substance that can flow and is not solid
68. The scientists worked together to _____ a plan for their research project.
- v. to create or develop a plan, system, theory, or formula; to express an idea or concept in a clear, precise manner
69. Damage to the _____ may play a role in the development of glaucoma.
- n. the innermost light-sensitive membrane covering the back wall of the eyeball
70. The _____ for applying for a visa can be lengthy and complicated.
- n. a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
71. These economic activities had disastrous environmental _____.
- n. the outcome of a particular action or event, especially relative to an individual

ANSWERS: 64. personalize, 65. poise, 66. differentiate, 67. fluid, 68. formulate, 69. retina, 70. process, 71. consequences

72. His company requires employees to undergo a _____ process.
- n.* the process of evaluating or testing individuals or objects to determine their suitability or potential problems; a showing of a film or movie for a select group of viewers before its general release
73. Human conservation efforts often fail unexpectedly because they disturb the balance of the _____.
- n.* all the plants and living creatures in an area and the way they affect each other and the environment
74. Eyeless fish _____ in dark caves.
- v.* to develop gradually, or to cause the development of something or someone gradually
75. Understanding protein folding is a vital step in deciphering the _____ code.
- adj.* of or relating to genes (= parts of the DNA in cells) or the science of genes
76. The once-thriving city has _____ into a crime-ridden slum.
- v.* (of a person, animal, or plant) to become worse in health or physical condition
77. The _____ will repair my telephone tomorrow morning.
- n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
78. _____ stem cells can differentiate into any cell in the body.
- adj.* describing cells that have the potential to differentiate into any specialized cell in the body, often used in the context of stem cell research and applications
79. The company's new software is highly _____ allowing it to handle increasing number of users.
- adj.* capable of being easily expanded or increased in size, number, or scale to meet changing demands

ANSWERS: 72. screening, 73. ecosystem, 74. evolved, 75. genetic, 76. degenerated, 77. engineer, 78. Pluripotent, 79. scalable,

80. The project is still in its _____ stage.

adj. of or relating to an embryo (= an animal organism in the early stages of growth); in an early stage of development

81. Breast _____ is the most common type of cancer in women.

n. abnormal growth of cells that can invade and destroy surrounding tissues and organs; a disease characterized by the uncontrolled growth and spread of abnormal cells

82. I _____ to him that I had seen his sister at the grocery store earlier that day.

v. to speak or write about something or someone briefly

83. Advancements in _____ have revolutionized medicine and agriculture.

n. the application of technological processes and methods to biological systems to develop new products or techniques, such as genetically modified organisms or biopharmaceuticals

84. He grilled the _____ meat of a chicken.

n. either of the two round soft parts of a woman's chest which secrete milk after childbirth

85. The oil price continued their downward _____.

n. a general direction in which something is changing or developing

86. The doctor carefully examined the _____ medical history.

n. a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic

87. The doctor diagnosed him with a rare _____ that had no known cure.

n. a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems

ANSWERS: 80. embryonic, 81. cancer, 82. mentioned, 83. biotechnology, 84. breast, 85. trend, 86. patient's, 87. disease

88. The economic stimulation program would _____ a lot of new jobs.

v. to produce or create something; to make offspring by reproduction

89. The younger _____ has different values and beliefs than the older one.

n. all the people born and living at about the same time, regarded collectively; the production of heat or electricity

90. The scientist conducted a study that provided _____ details about the species' behavior.

adj. clearly defined or particular to a certain thing or situation; distinct, explicit, and precise

ANSWERS: 88. generate, 89. generation, 90. specific